

Using data and evidence for decision making in cities

Global Future Cities Programme South Africa

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Data as a tool for...



Improved targeting and allocation of resources



Forecasting future demands for public services



Evaluating the impact of policies



Water efficiency during Cape Town's drought

- **Digitisation** of water data previously stored in unusable format.
- Data on water usage made publicly available for behavior change.
- Frequent updates on water usage, dam levels and pipe conditions for efficient city response.



Forecasting urban expansion



Source: http://atlasofurbanexpansion.org/cities/view/Cebu_City

Where and how is urban expansion taking place in Cebu?

- Use of satellite imagery and analysis to show infill (pink), extension (yellow), leapfrog (red) and inclusion (green)
- Past trends to forecast future infrastructure and service delivery



Evaluating impact of Bogota's TransMilenio system

- Combined national census data and representative city data on commute times, land markets, and residential and employment locations.
- Blue = limited change, red = high change in locational decisions for firms and residents.
- BRT has resulted in increased employment and city in-migration; but zoning restrictions have inhibited full benefits.



Brings economic value

- 90% of all major transportation projects overrun on cost.
- Costs are systematically underestimated: on average, actual costs are 28% more than initial projections.
- **Demand** for infrastructure is **systematically overstated**, by 50% on average.

Source: Siemiatycki, M (2018)





Improves integrated planning



Facilitates inclusion



Byrne et al. (2018)

- Slum dwellers international Citizen generated data
 - "Making the invisible visible"
- Network of community organisations in 33 countries; profiled over 7700 slums in 224 cities.
- Standardised settlement profiles, surveys and mapping undertaken by residents → digitised and open source.
- Data **owned by communities** and control what, to whom and when information is made available.

World Bank survey of the informal sector in Kampala

- Randomised survey of 2243 informal businesses
- Included as **module** of National Manpower Survey (UBOS)
- Skills, remuneration, training and working conditions.

Challenges – Governance and Collaboration



Capacity

Scaling projects

Silo's

Governance & Collaboration



- Universal data standards and data sharing agreements
- HR policies skills and capacity require a shift across the organization beyond technical experts
- > Integrated systems, user-centered design
- Start small, build up experiment and adapt.
- > Understand individual behaviour
- Strong leadership



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